

PN - SU1625695 A 19910207
IC - B27K5/06
TI - METHOD OF WOOD WORKING
PA - LE LESOTEKH AKAD (SU)
IN - BIRMAN ALEKSEJ R (SU);STRELKOVA SVETLANA I (SU);SHAVER IOSIF KH (SU)
AP - SU19884483062 19880726
PR - SU19884483062 19880726
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NPR - 1

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AN - 1992-022112 [03]
TI - Treatment of wood for use as neutron flow moderator - involves soaking in boric acid soln., drying, impregnating with petrolatum, uniaxially compressing with heating and cooling under pressure
AB - SU1625695 Wood is prepd. for subsequent use as a moderator of fast neutrons by soaking in a 3-5% soln. of boric acid for 25-30 hrs. at 18-40 deg. C, followed by drying to moisture content of 6-10%. Subsequent impregnation with petrolatum is followed by uniaxial compression to 0.5-0.55 compression degree by heating to 80-100 deg. C, maintaining that temp. for 50-60 min., and cooling over 25-30 min. still under pressure. The impregnation with petrolatum is carried out at 90-110 deg. C for 1-1.5 hrs. under reduced pressure of 0.07-0.075 MPa.
- USE - Protection of biological objects from fast neutrons.
- In an example, 100mm thick samples of birch wood were soaked in 3% boric acid for 25 hrs. at 18 deg. C, dried to 8% moisture content and impregnated with petrolatum for 1 hour at 90 deg. C under 0.07 MPa. Subsequent heating to 90 deg. C for 50 min. in hot press and cooling over 25 min., completed the process. Bul.5/7.2.91 (2pp Dwg.No. 0/0
IW - TREAT WOOD NEUTRON FLOW MODERATE SOAK BORIC ACID SOLUTION DRY IMPREGNATE PETROLATUM UNIAXIAL COMPRESS HEAT COOLING PRESSURE
PN - SU1625695 A 19910207 DW199203 000pp
IC - B27K5/06
MC - E31-Q05 F05-B K05-B05
DC - E36 F09 K07 P63
PA - (LENL) LENINGRAD FORESTRY ACAD